



Dual Induction Log

Pioneer Energy Services

API No.

15-063-22165-00-00

Company Lario Oil & Gas Company

Well Ottley #4-4

Field Logo SE

County Gove State

Kansas

Location 995' FNL & 335' FWL

Other Services
CNL/CDL
MEL

Sec: 4 Twp: 13S Rge: 31W

Permanent Datum Ground Level Elevation 2938
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2946
D.F.
G.L. 2938

Date 1/9/2014

Run Number One

Depth Driller 4750

Depth Logger 4746

Bottom Logged Interval 4745

Top Log Interval 250

Casing Driller 8.625 @ 259

Casing Logger 260

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2300

Density / Viscosity 9.5 52

pH / Fluid Loss 10.5 7.2

Source of Sample Flowline

Rm @ Meas. Temp 1.96 @ 30

Rmf @ Meas. Temp 1.47 @ 30

Rmc @ Meas. Temp 2.65 @ 30

Source of Rmf / Rmc Charts

Rm @ BHT 0.47 @ 126

Operating Rig Time 4 Hours

Max Rec. Temp. F 126

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Steve Davis

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Oakley,
11 South on Hwy 83 to Seneca Rd, 4 East, 1/4 South,
East into

Database File: c:\warrior\data\lario_ottley #4-4\lario_010914hd.db
Dataset Pathname: dil\larstck
Presentation Format: dil2in
Dataset Creation: Thu Jan 09 08:53:16 2014
Charted by: Depth in Feet scaled 1:600

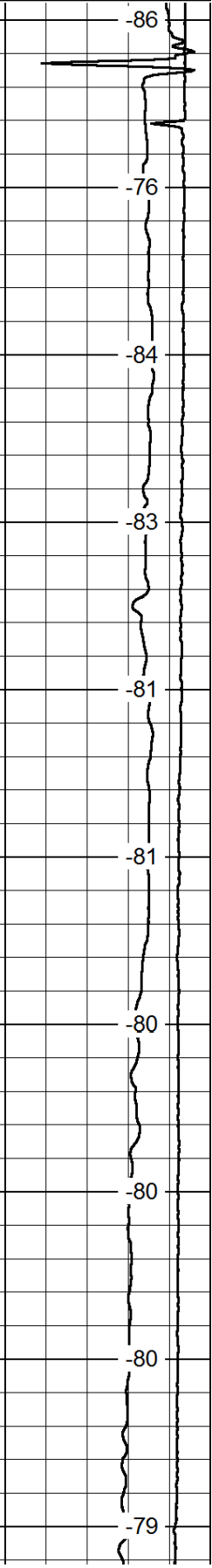
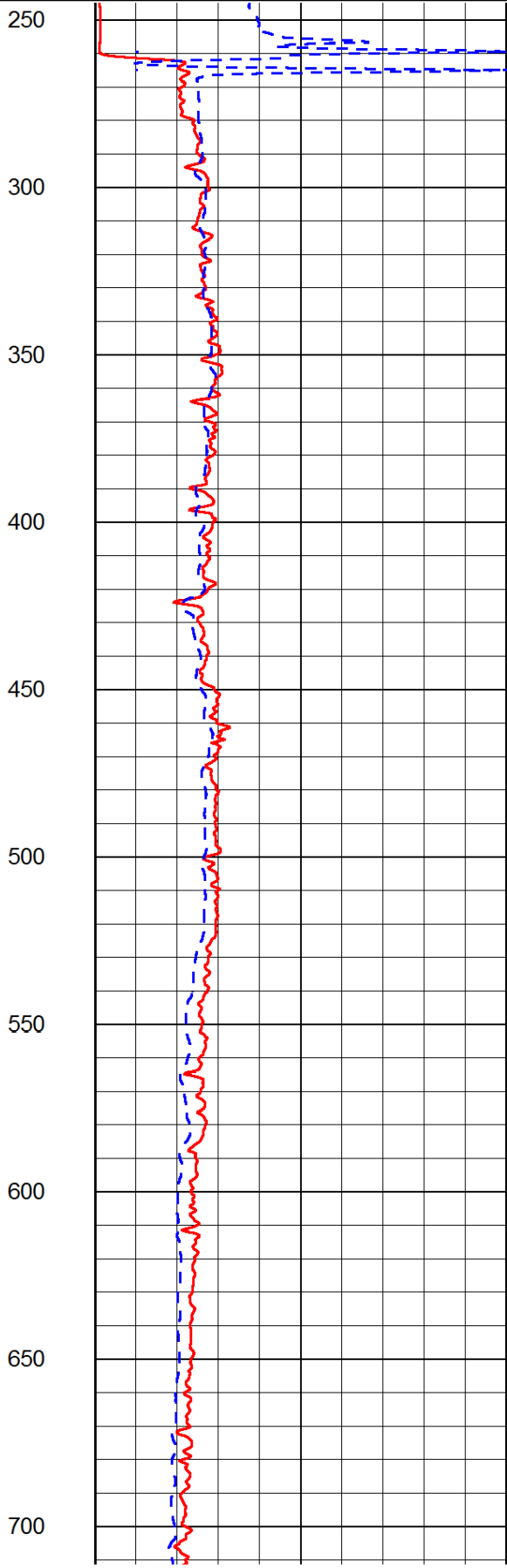
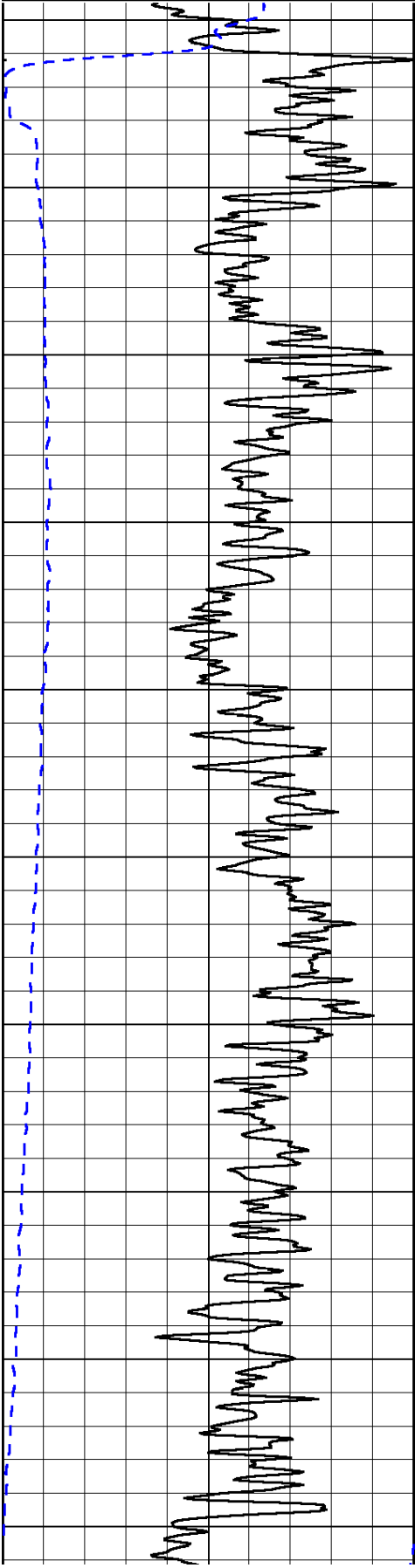
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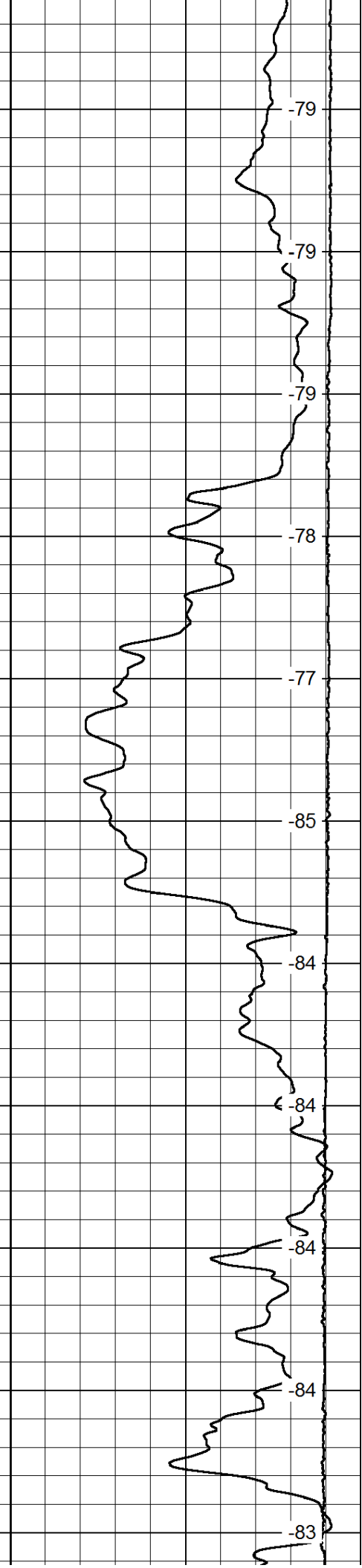
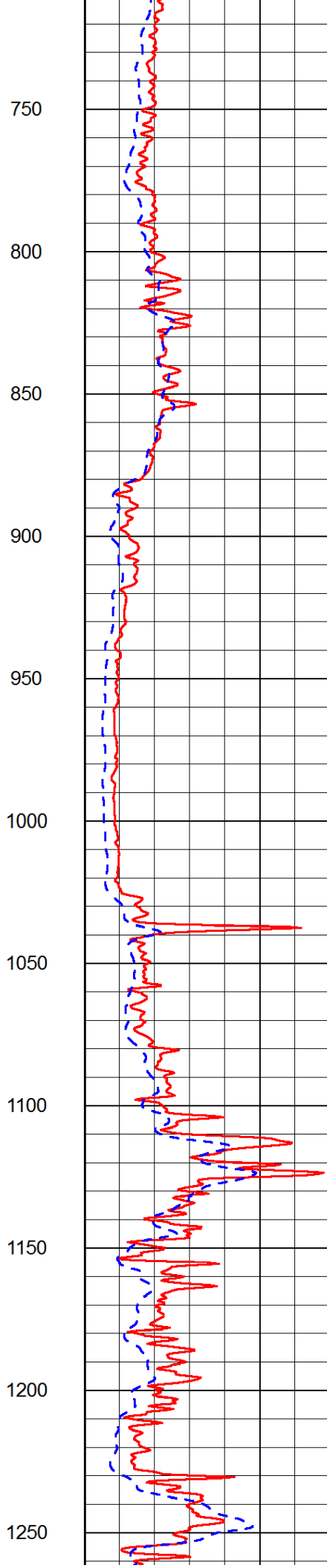
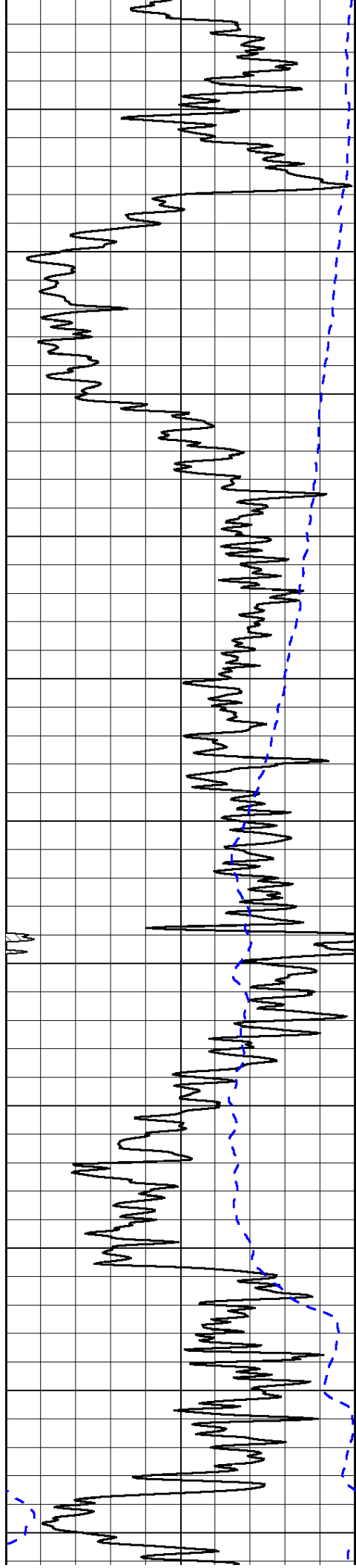
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-200	SP (mV)	0

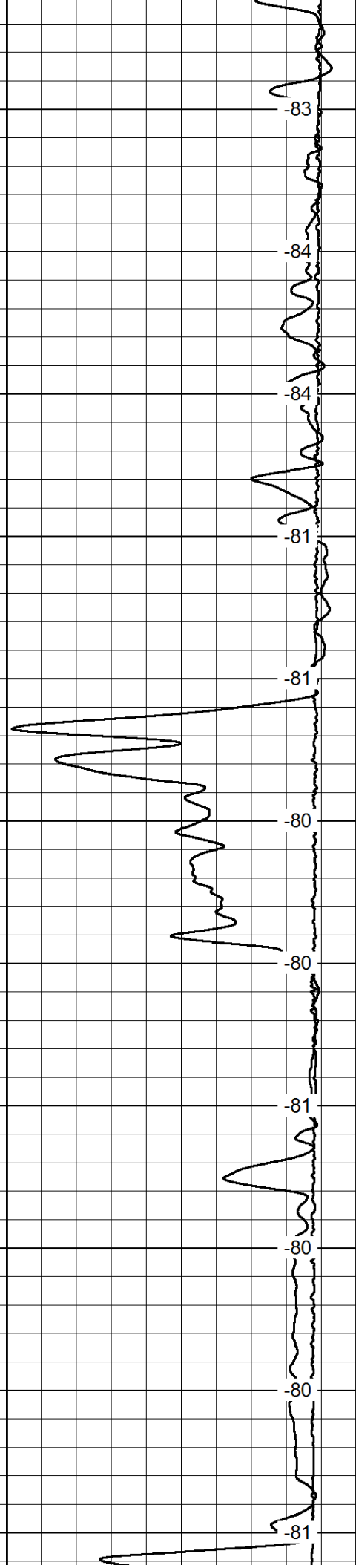
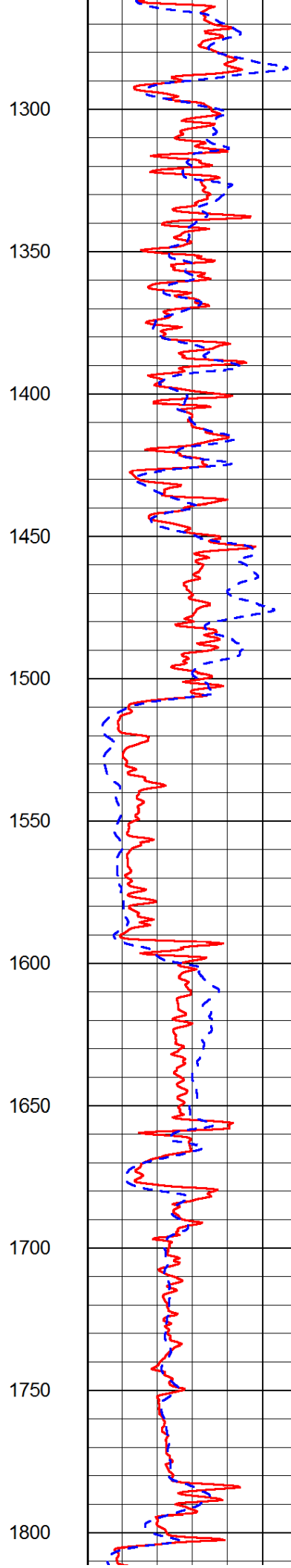
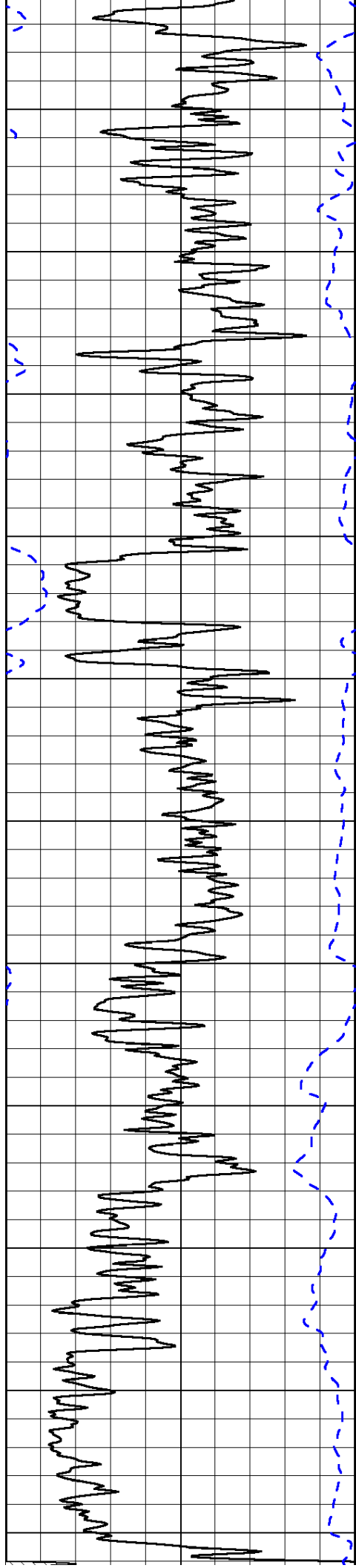
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

50	Shallow Resistivity	500
50	Deep Resistivity	500

LSPD
0
0







-83

-84

-84

-81

-81

-80

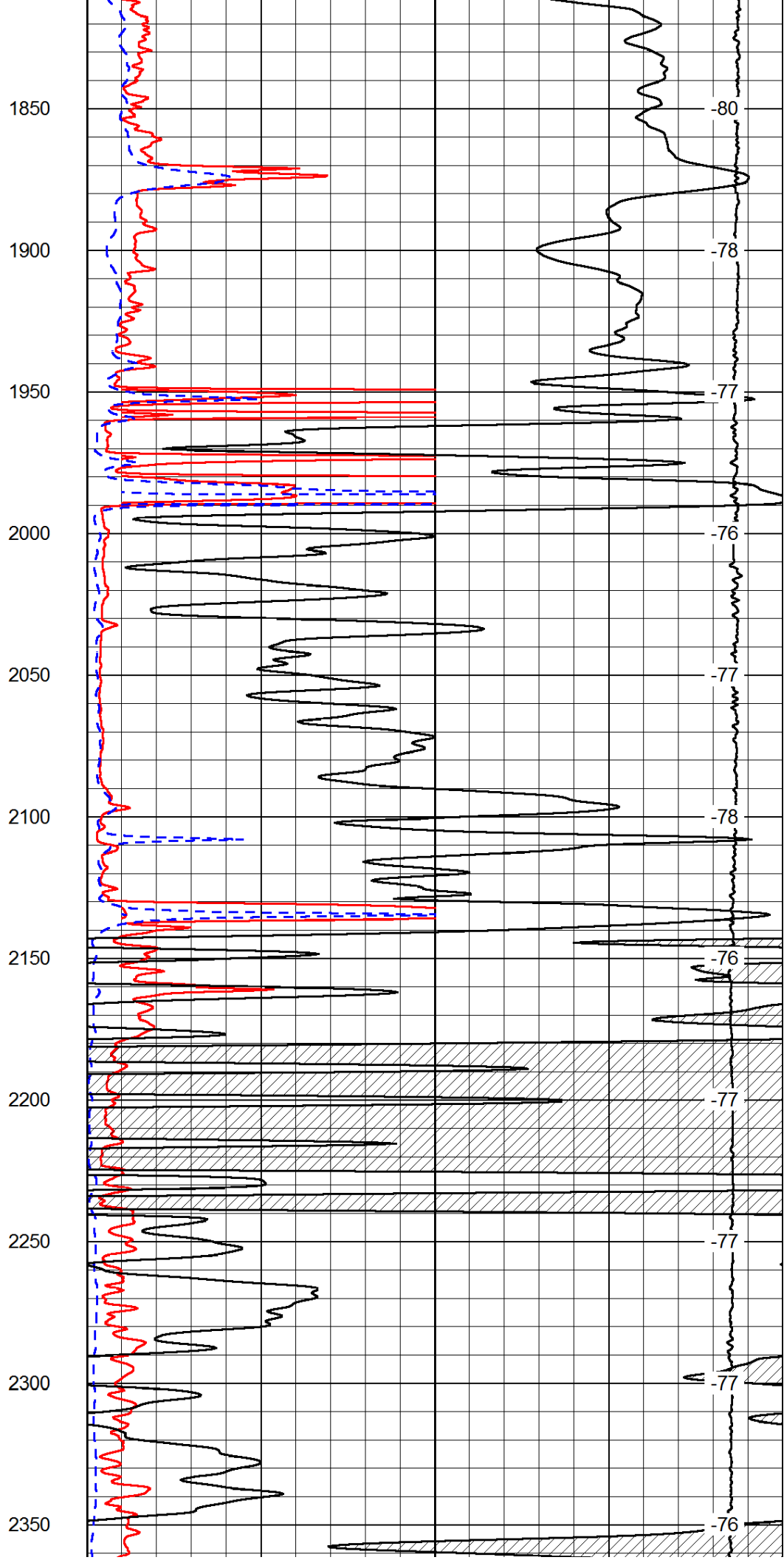
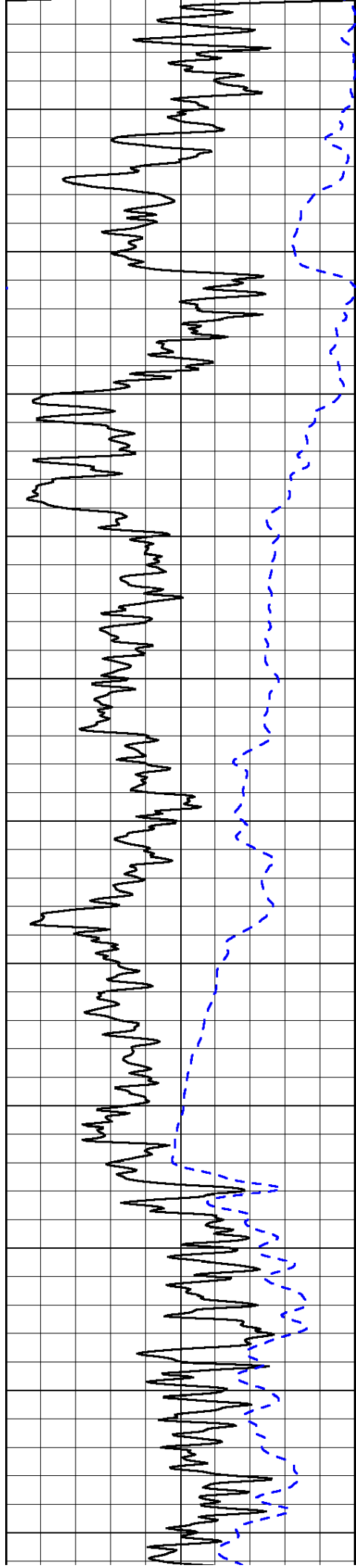
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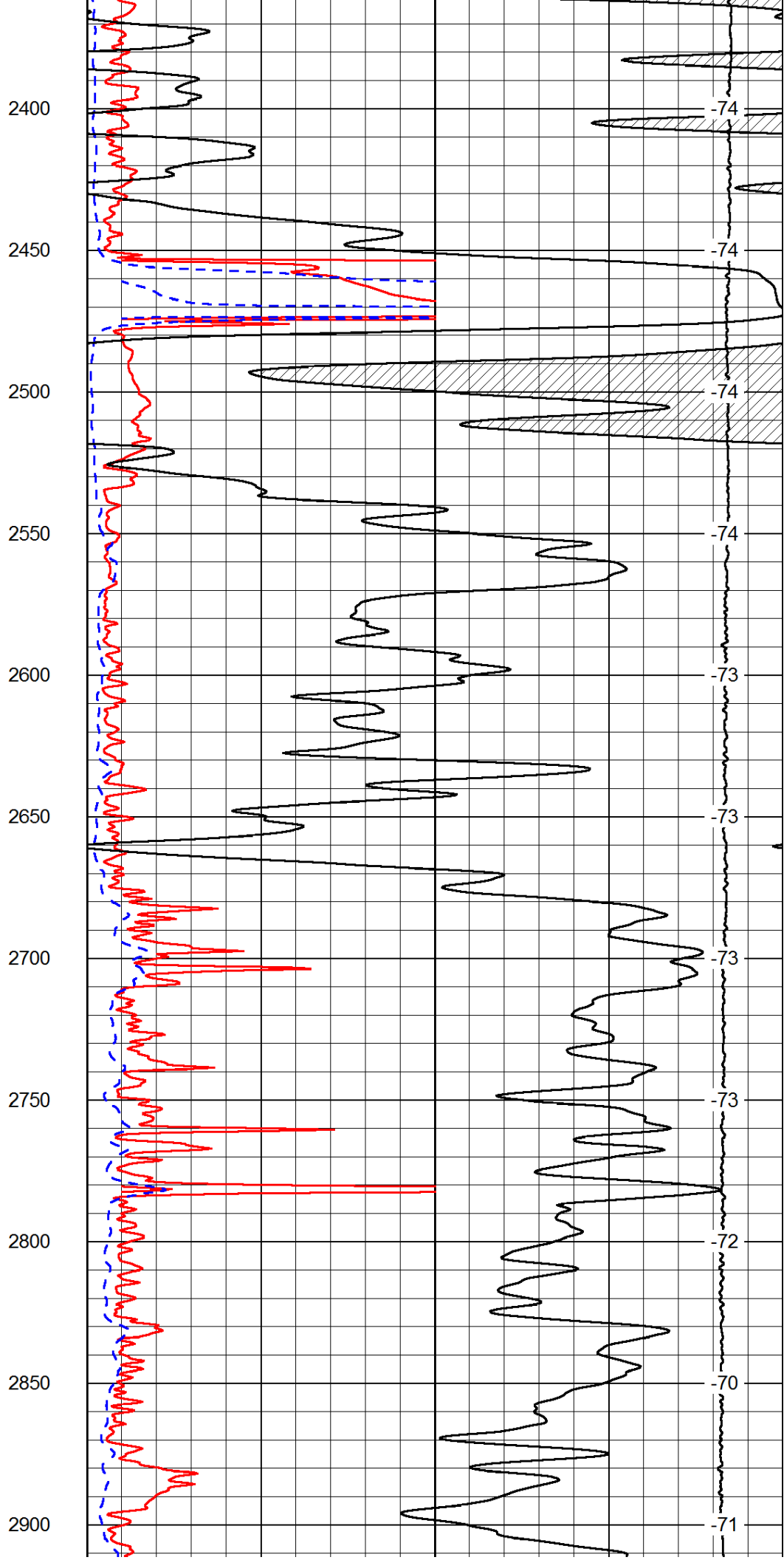
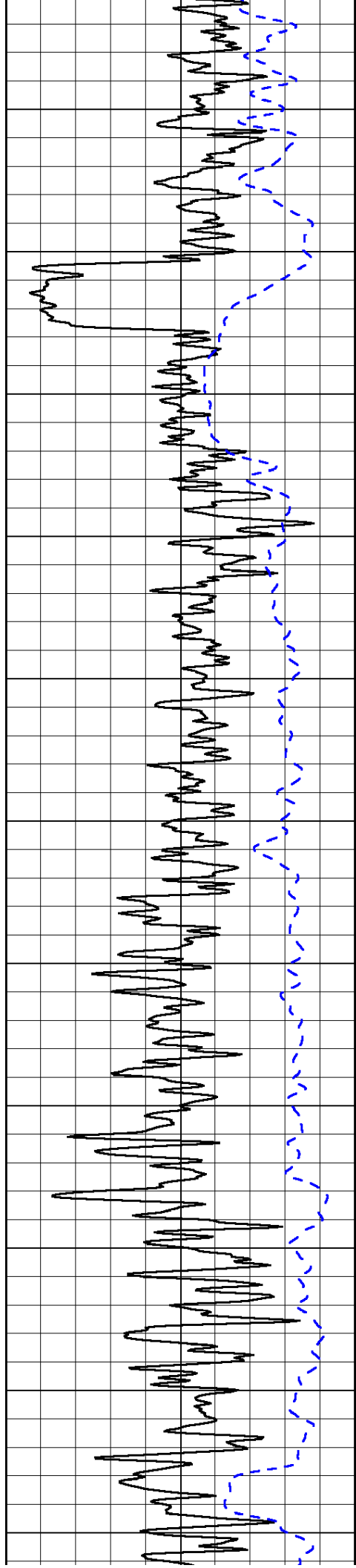
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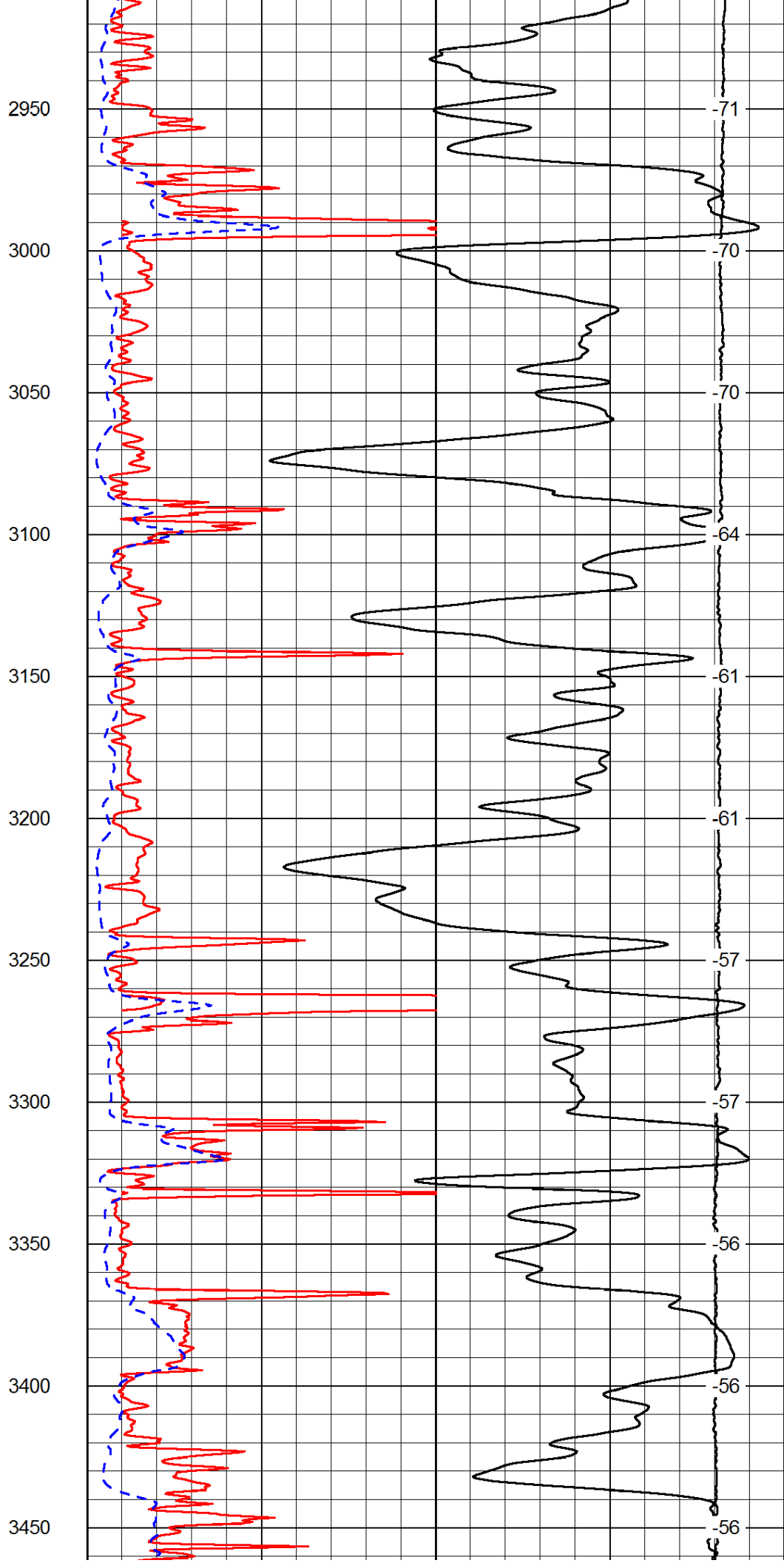
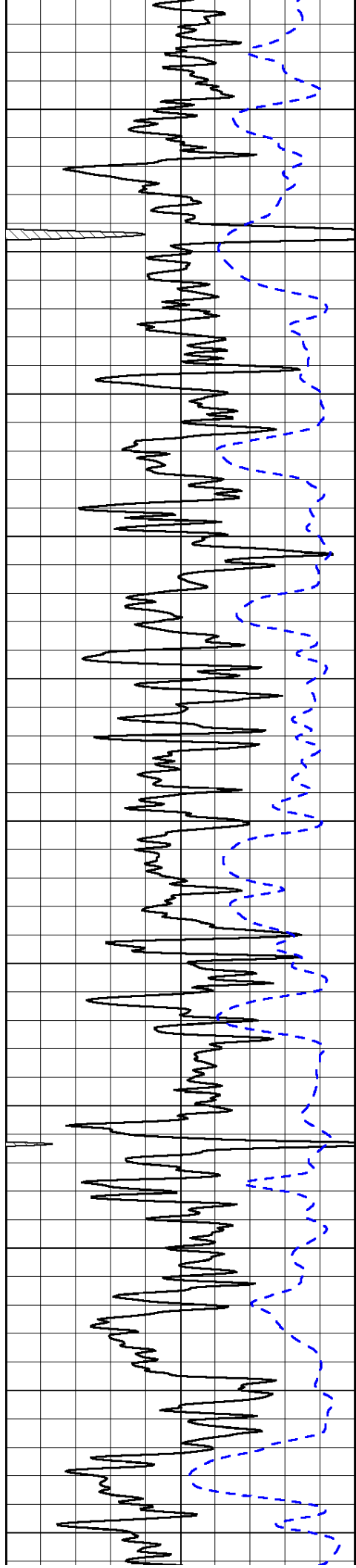
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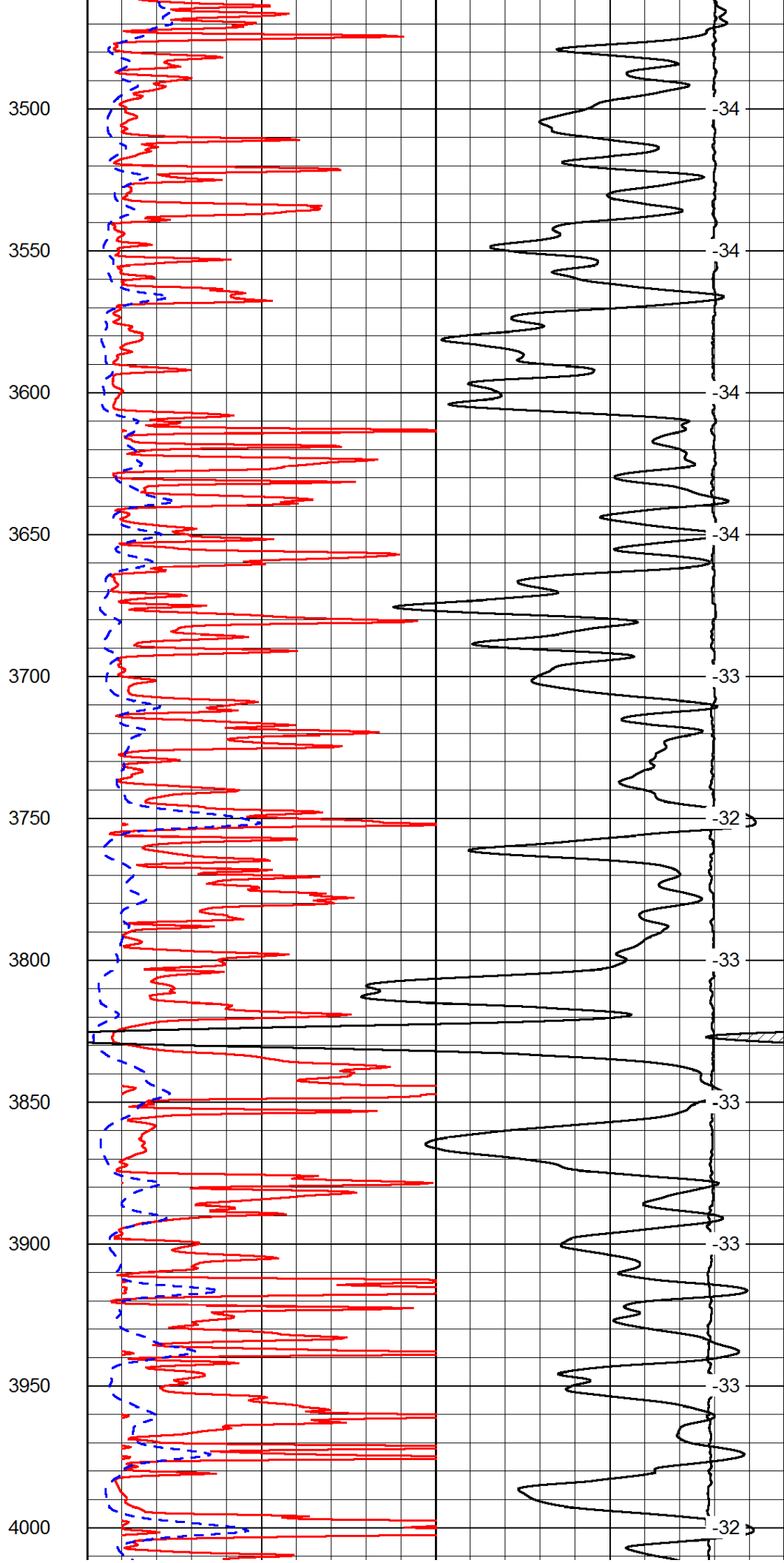
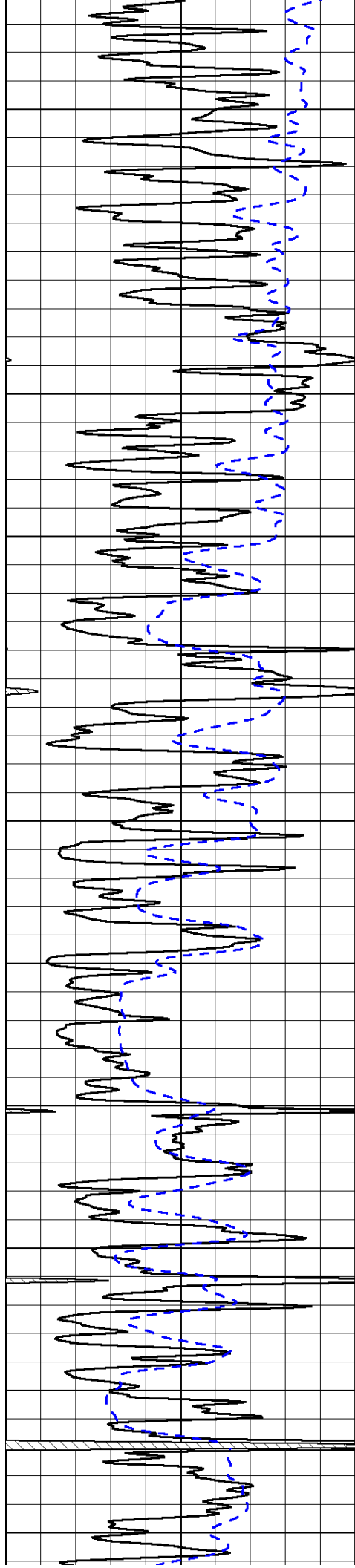
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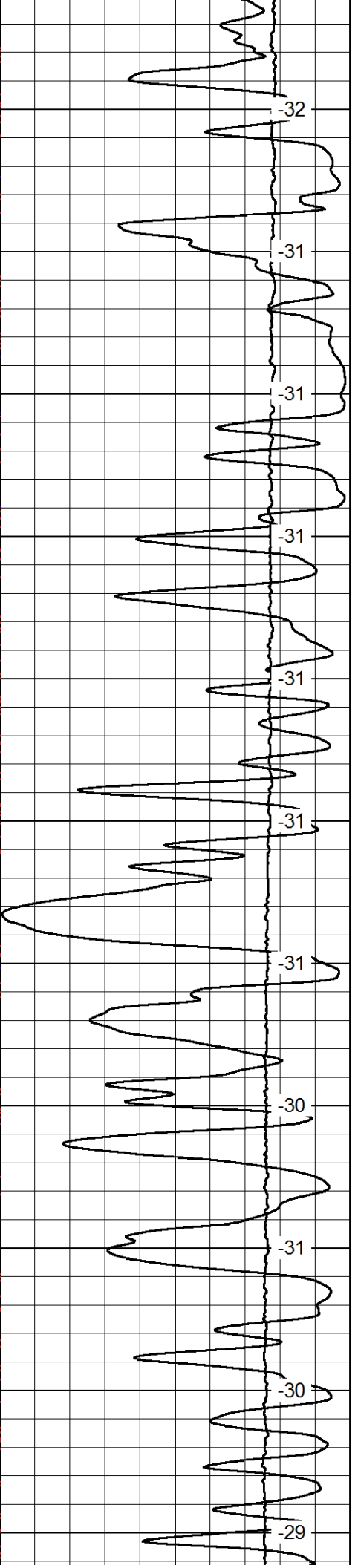
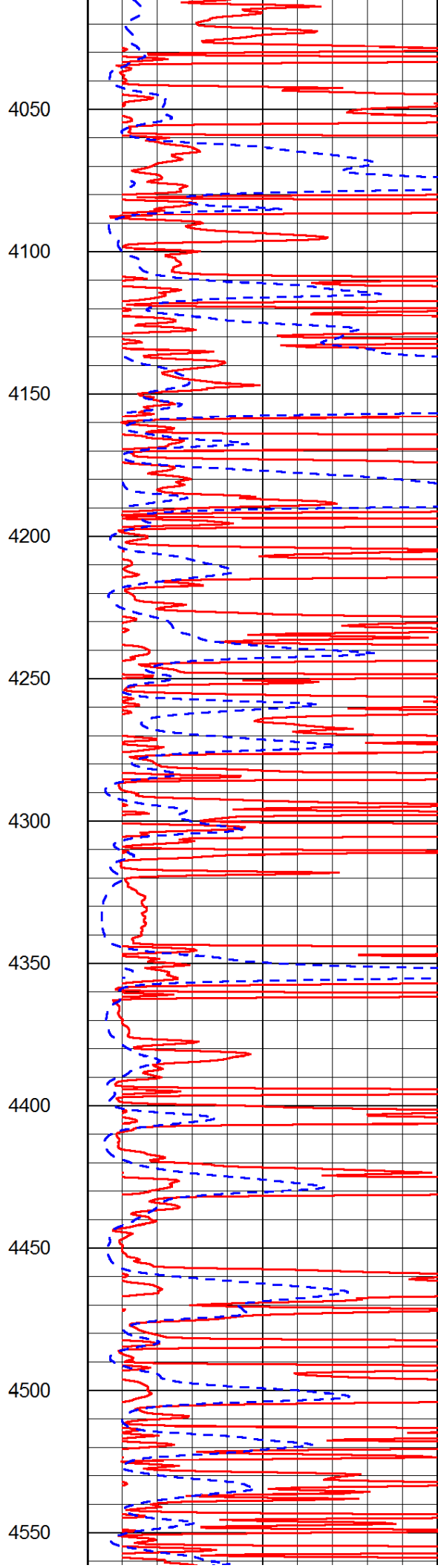
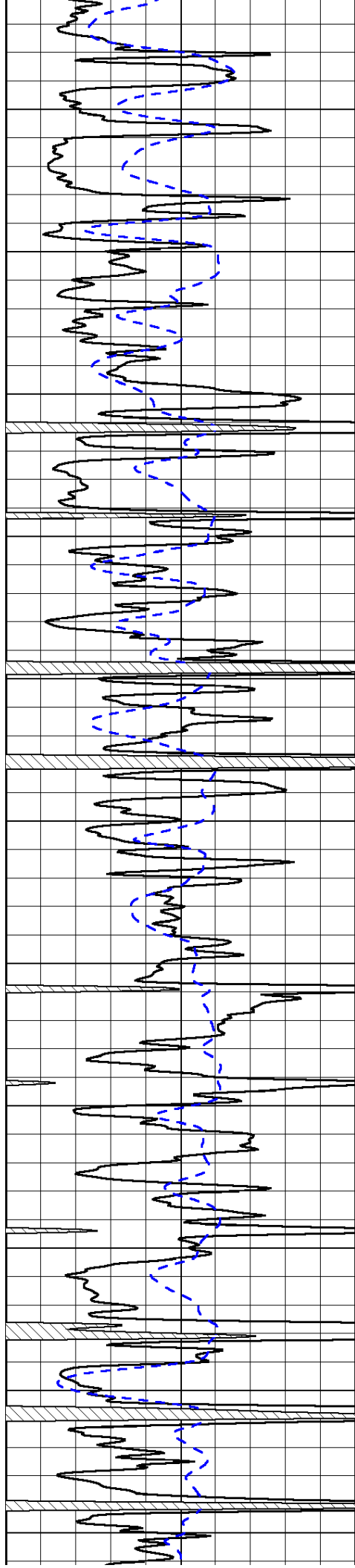
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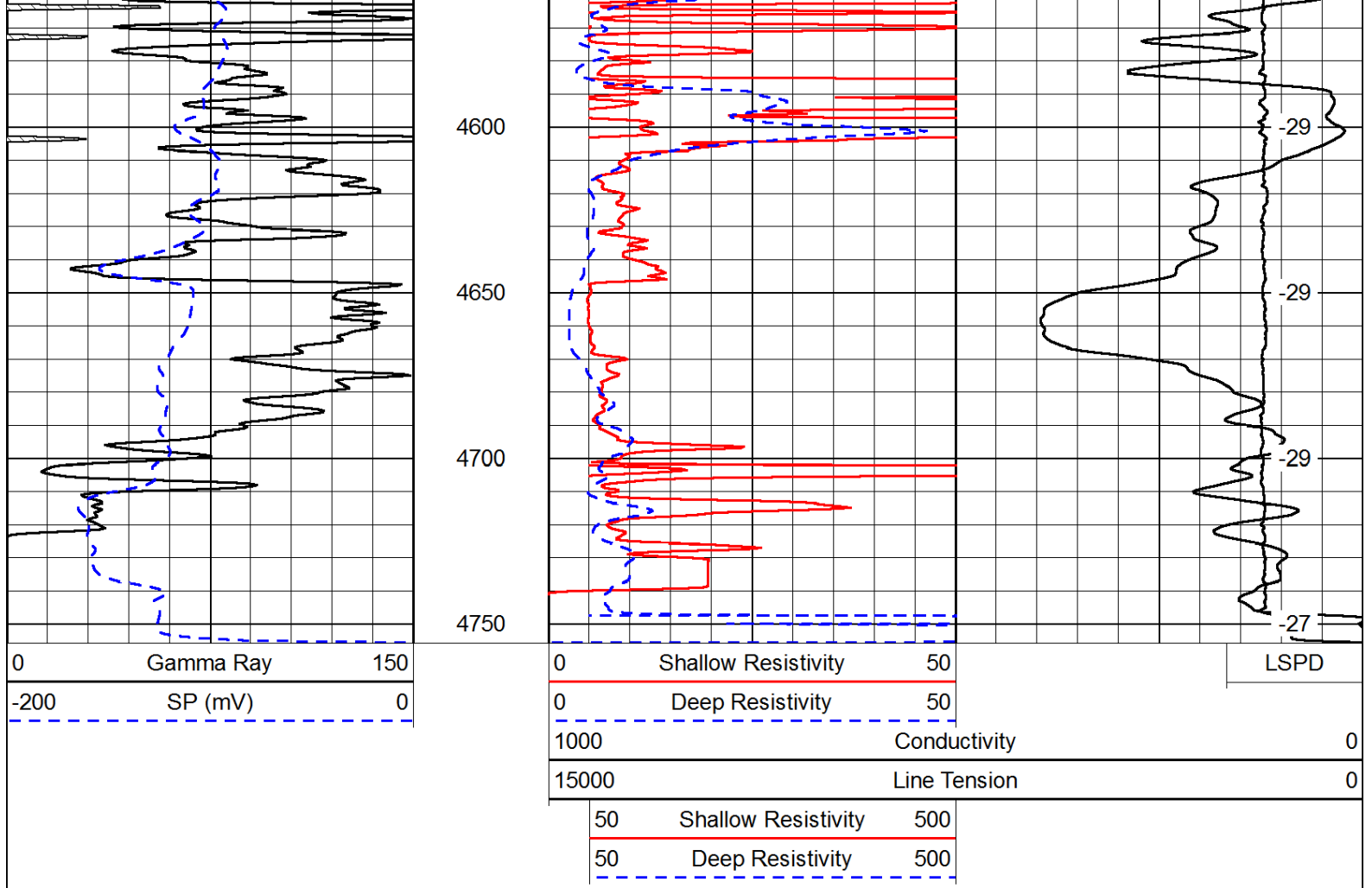




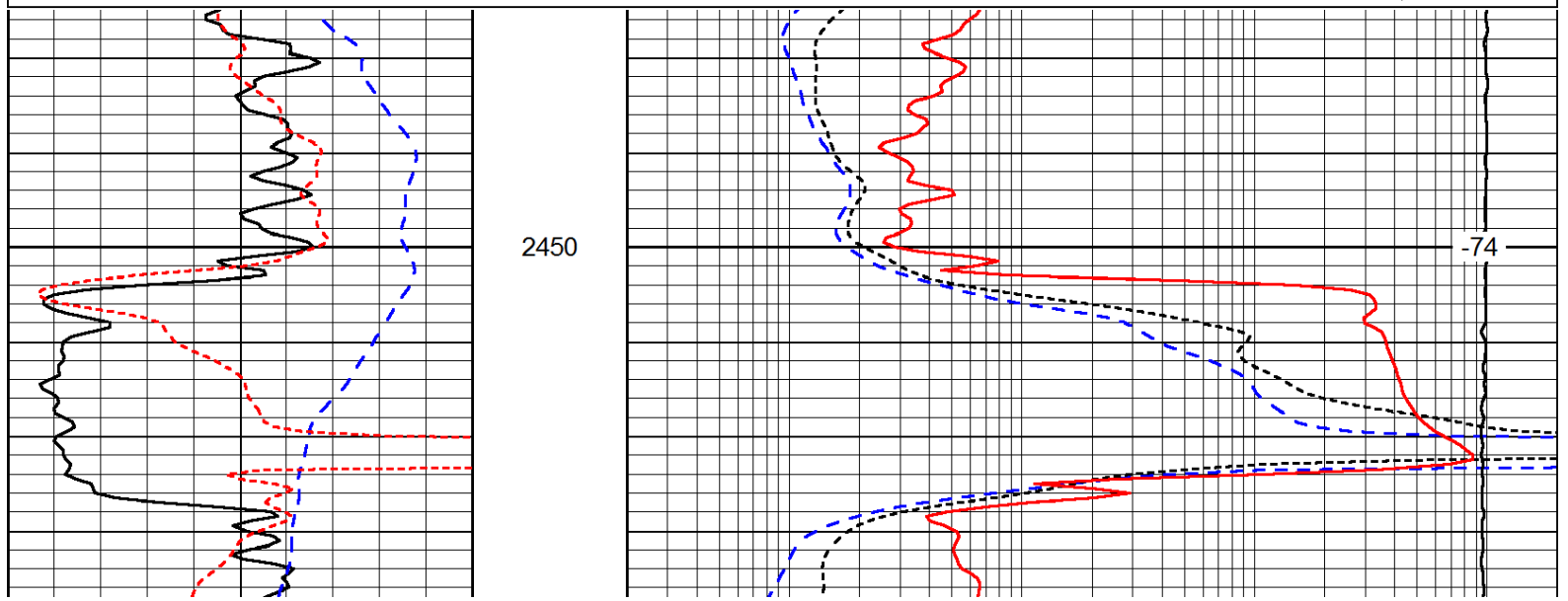
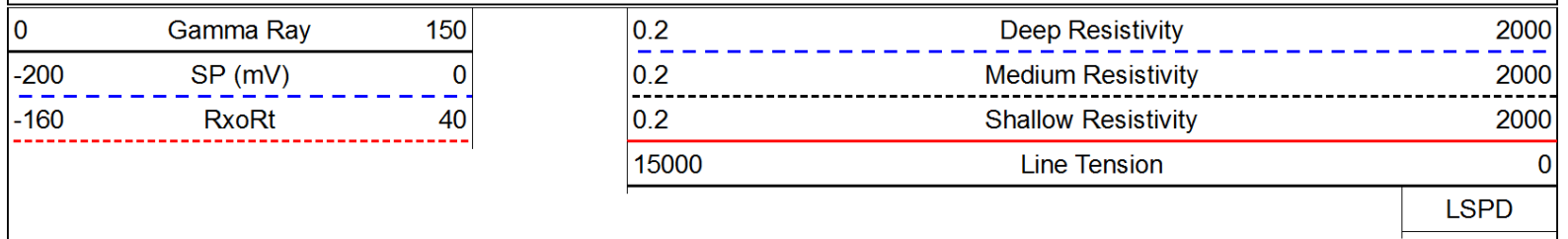


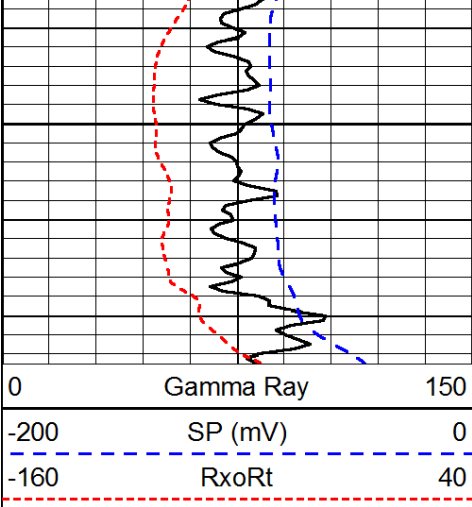




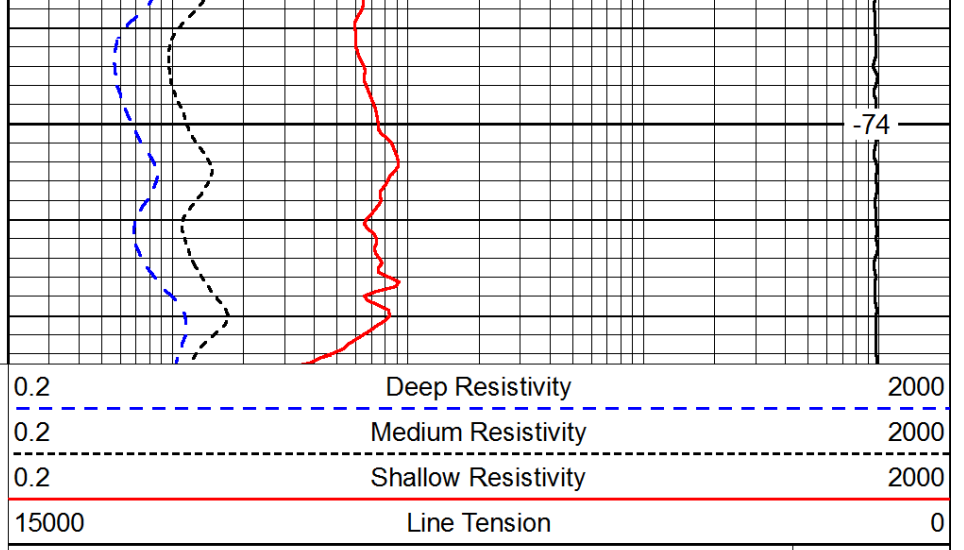


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 Presentation Format: dil
 Dataset Creation: Thu Jan 09 08:53:16 2014
 Charted by: Depth in Feet scaled 1:240





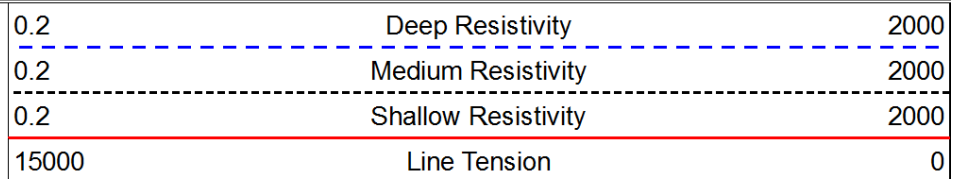
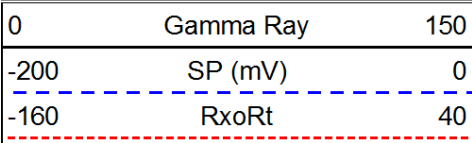
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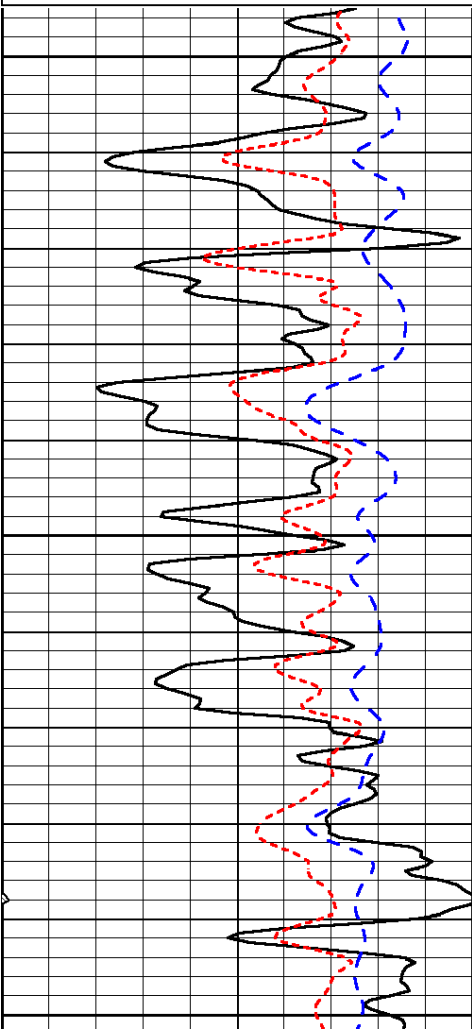
-74

LSPD

Database File: c:\warrior\data\lario_ottley #4-4\lario_010914hd.db
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Presentation Format: dil
Dataset Creation: Thu Jan 09 08:53:16 2014
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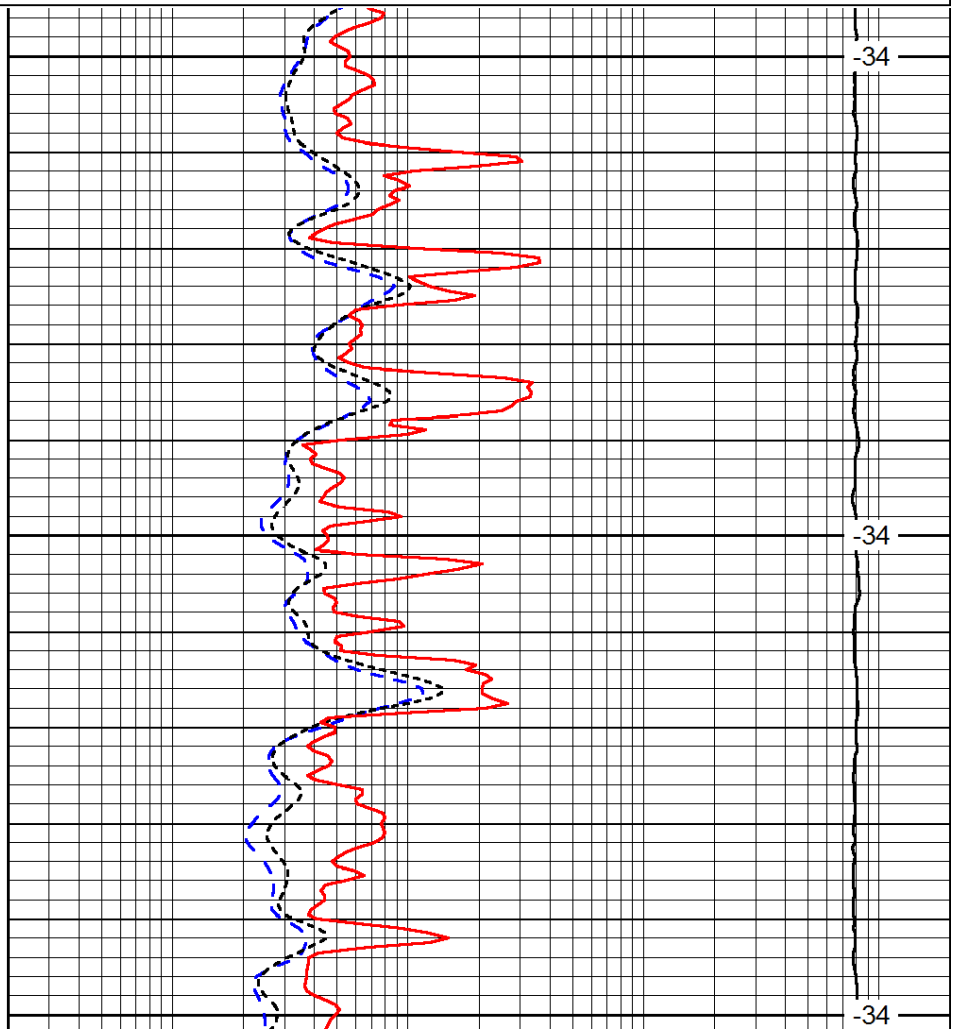
LSPD



3500

3550

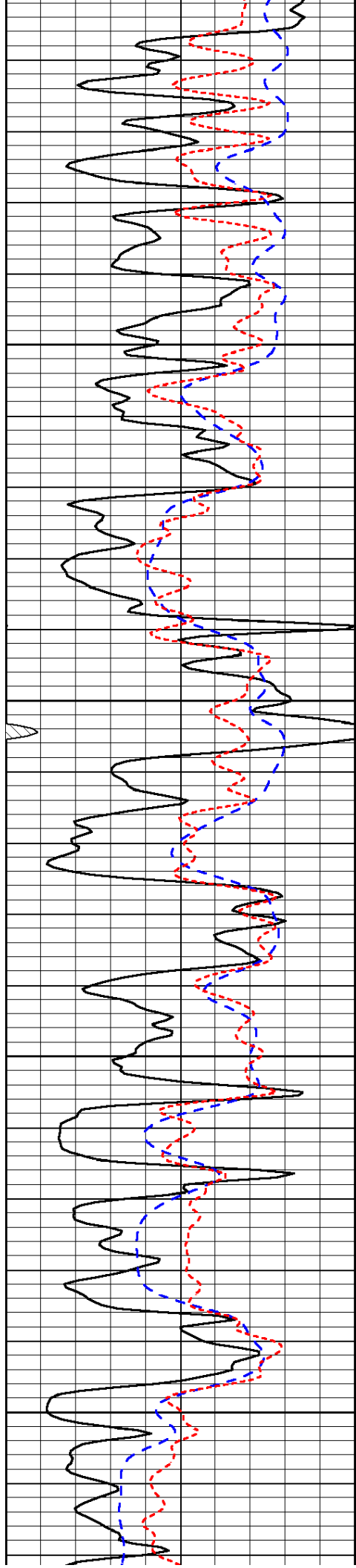
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-34

-34

-34

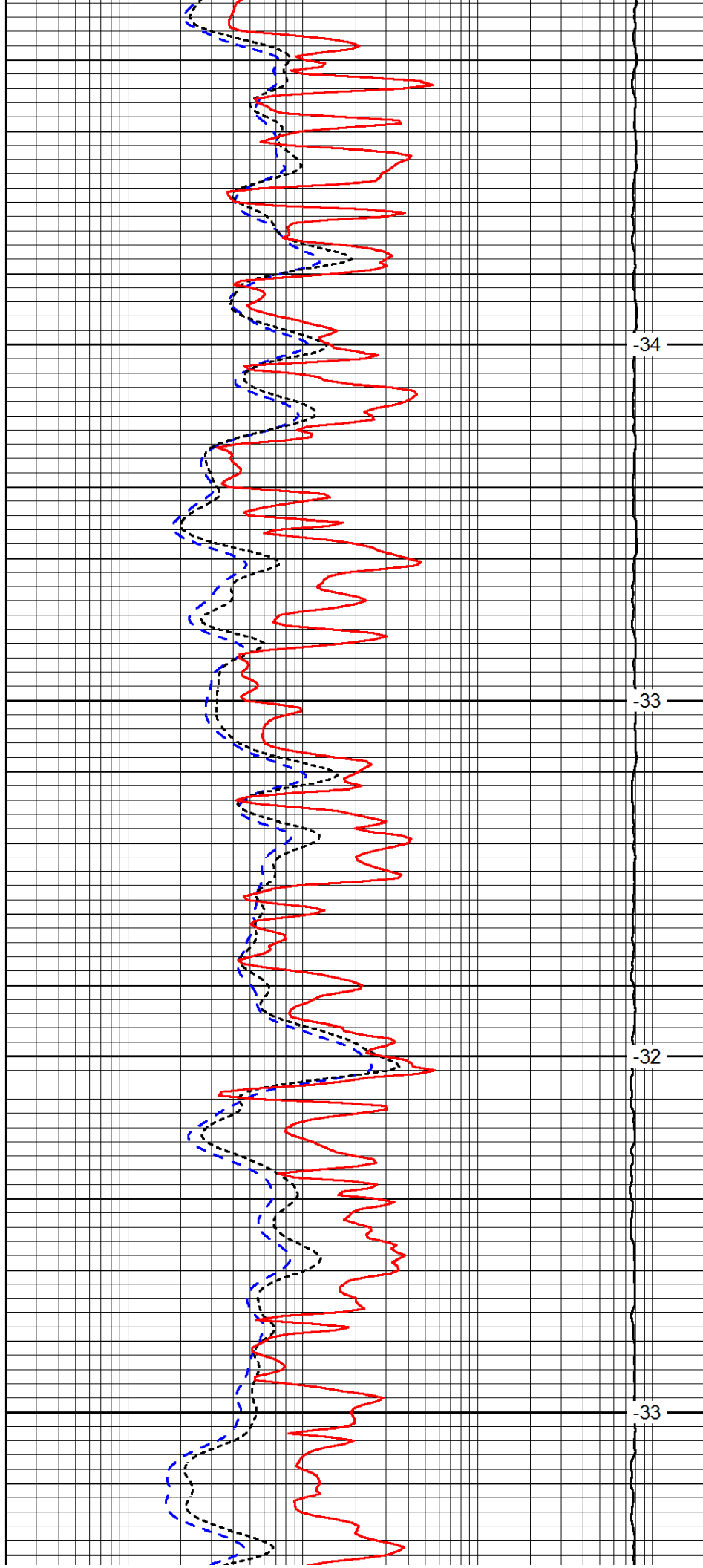


3650

3700

3750

3800

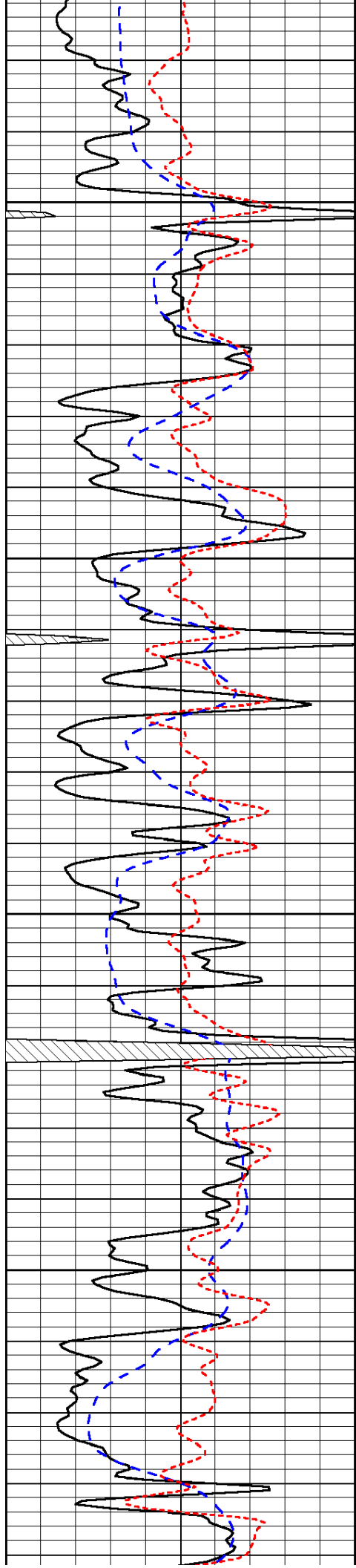


-34

-33

-32

-33

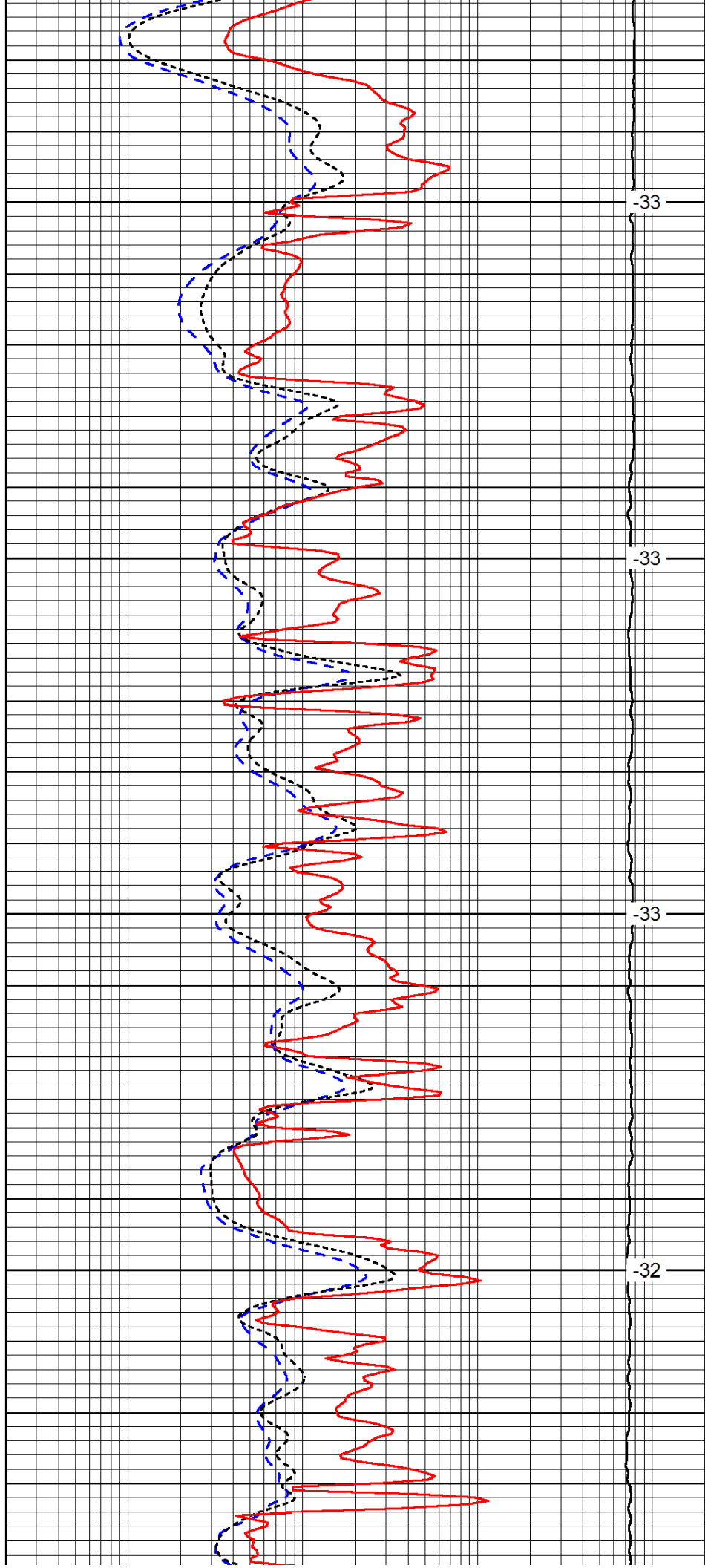


3850

3900

3950

4000

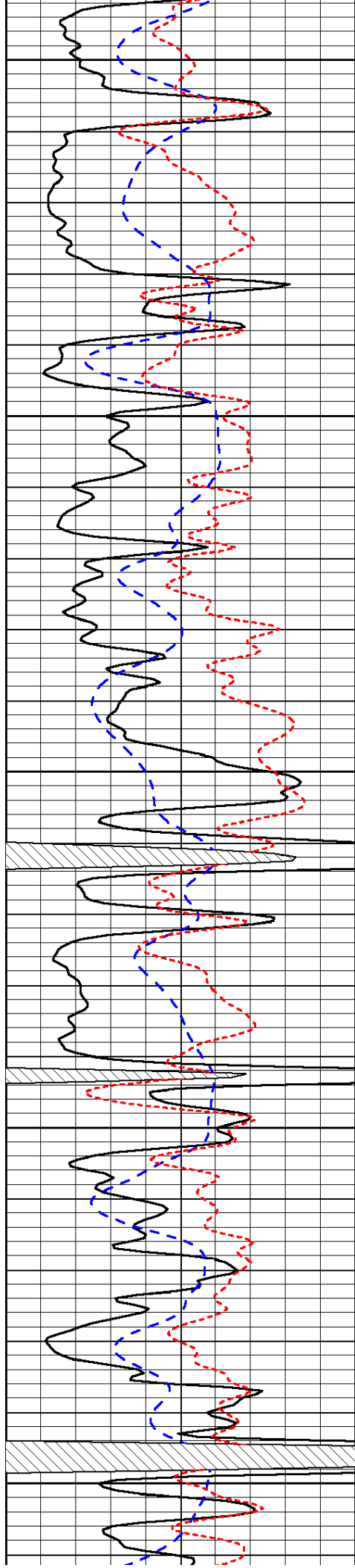


-33

-33

-33

-32



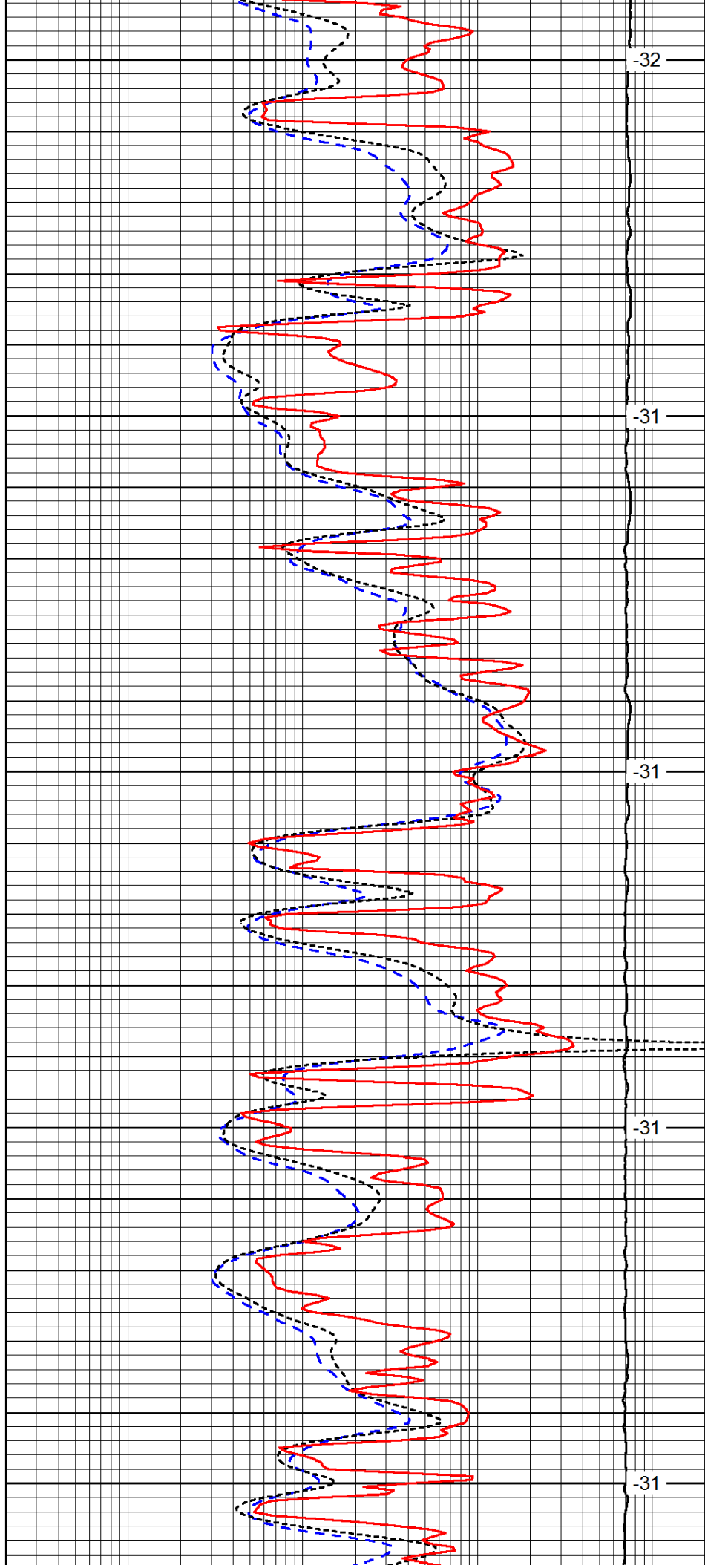
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4100

4150

4200

4250



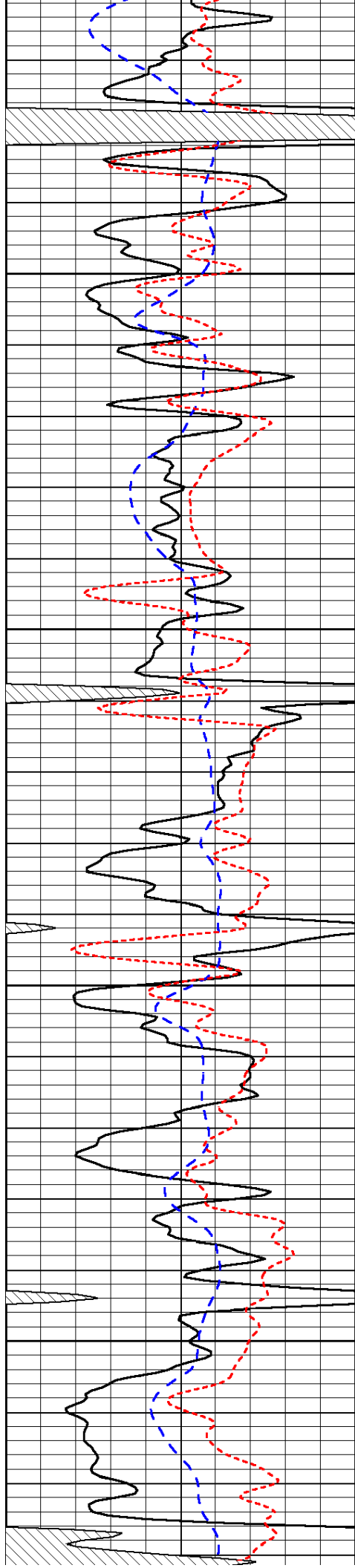
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-31

-31

-31

-31

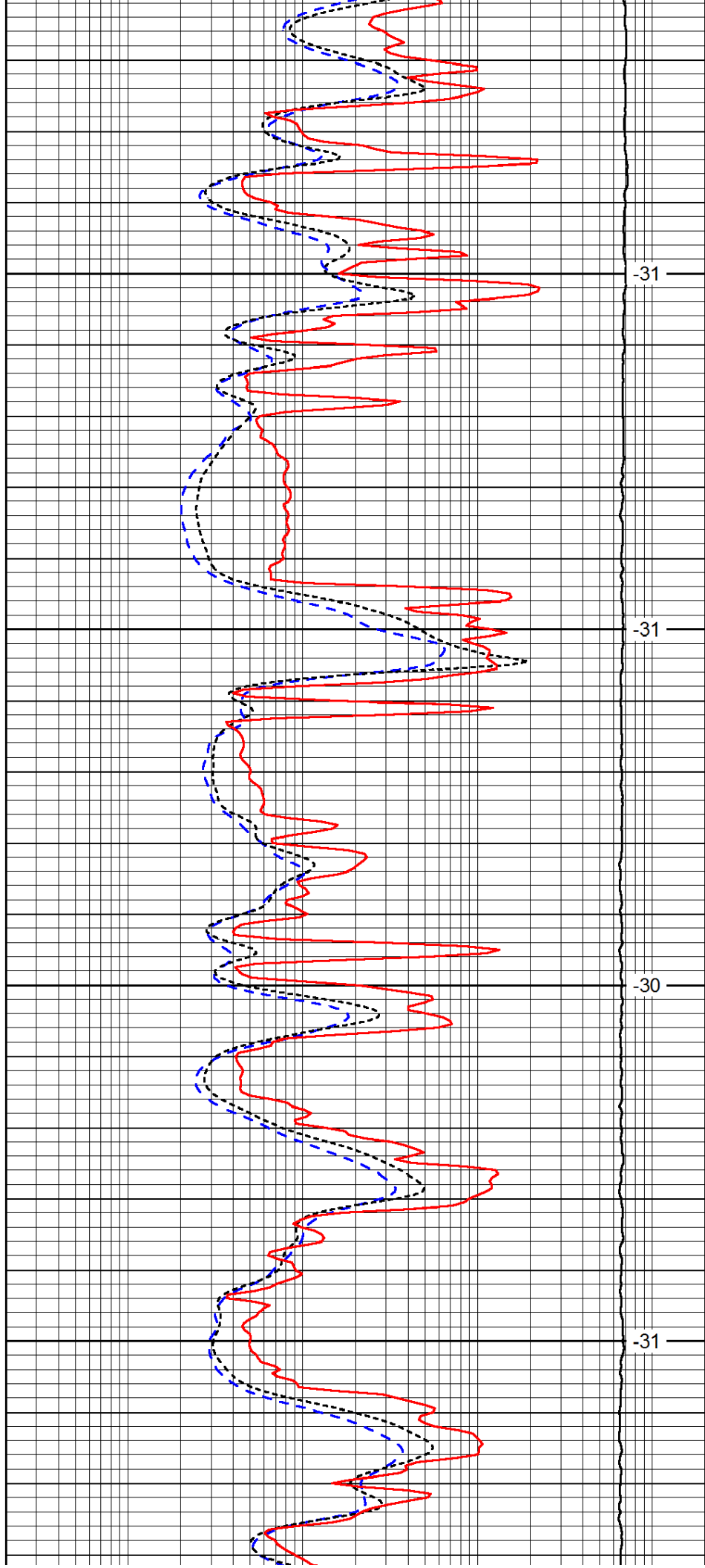


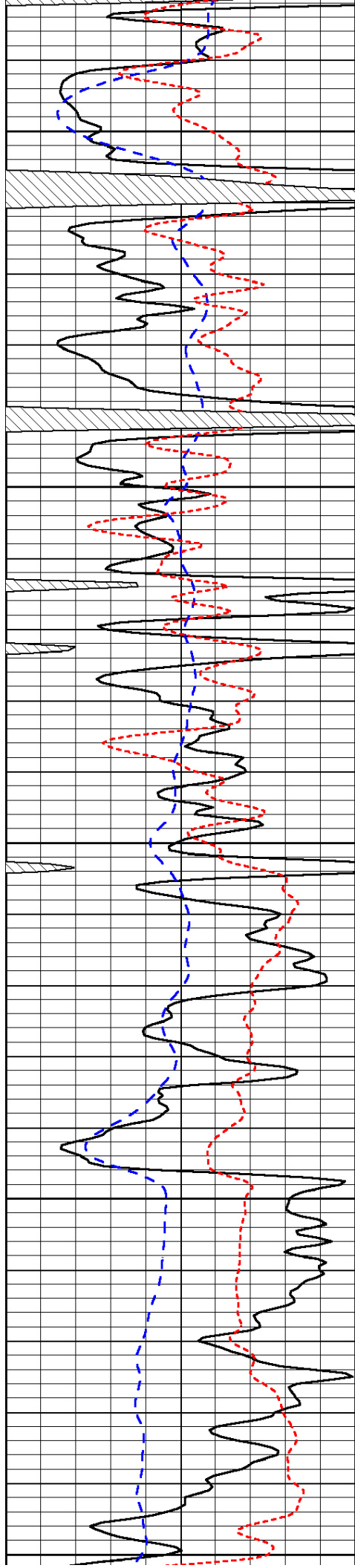
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4350

4400

4450





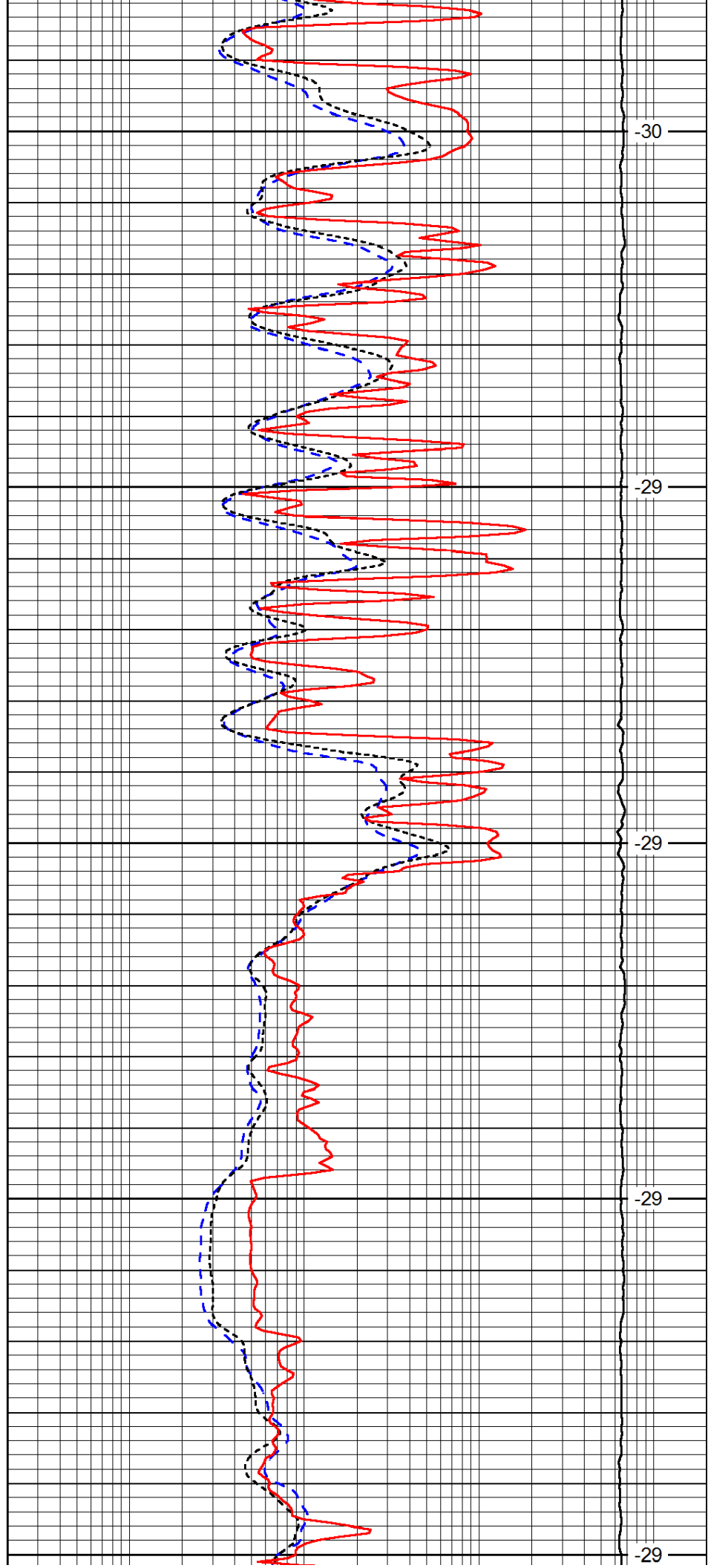
4500

4550

4600

4650

4700



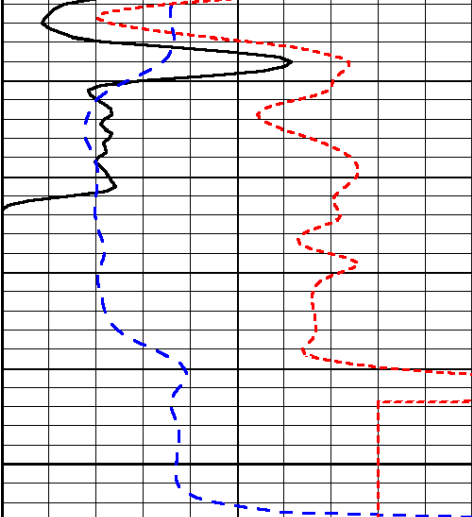
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-29

-29

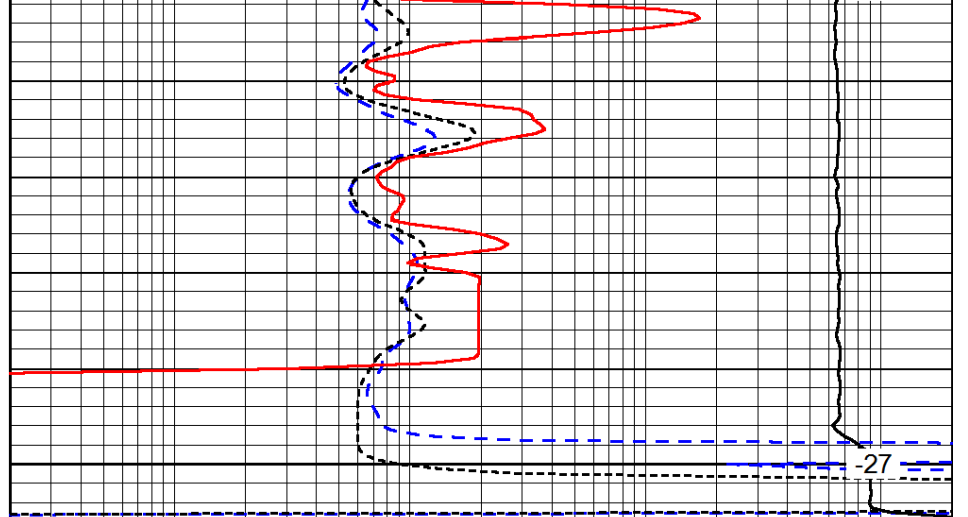
-29

-29



0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

4750



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD